

AMENDMENTS TO THE CLAIMS

The following claim listing will serve to replace all prior versions of the claims in the subject application.

1-35. (Cancelled)

36. (Currently amended) An isolated endophytic actinomycete wherein said actinomycete is selected from ~~the group consisting of:~~

(a) ~~an actinomycete characterized either by a nucleotide sequence corresponding to the nucleotide sequence substantially as set forth in SEQ ID NO: 1 or a nucleotide sequence capable of hybridizing to the complement of SEQ ID NO: 1 under high stringency conditions at 42°C;~~

(b) ~~the actinomycete of (a) wherein said actinomycete corresponds to EN2 (AGAL Deposit No. NM03/35895);~~

(c) ~~an actinomycete characterized either by a nucleotide sequence corresponding to the nucleotide sequence substantially as set forth in SEQ ID NO: 2 or a nucleotide sequence capable of hybridizing to the complement of SEQ ID NO: 2 under high stringency conditions at 42°C;~~

(d) ~~the actinomycete of (c) wherein said actinomycete corresponds to EN3 (AGAL Deposit No. NM03/36501);~~

(e) (a) an actinomycete characterized by a nucleotide sequence corresponding to the nucleotide sequence as set forth in SEQ ID NO: 7 or a nucleotide sequence capable of hybridising to SEQ ID NO: 7 under high stringency conditions at 42°; or

(f) (b) the actinomycete of (e) (a) wherein said actinomycete corresponds to EN16 (AGAL Deposit No. NM03/35605)[[;]]

(g) ~~an actinomycete characterized either by a nucleotide sequence corresponding to the nucleotide sequence substantially as set forth in SEQ ID NO: 10 or a nucleotide sequence capable of hybridizing to the complement of SEQ ID NO: 10 under high stringency conditions at 42°C;~~

(h) the actinomycete of (g) wherein said actinomycete corresponds to EN23 (AGAL Deposit No. NM03/35605);

(i) an actinomycete characterized either by a nucleotide sequence corresponding to the nucleotide sequence substantially as set forth in SEQ ID NO: 12 or a nucleotide sequence capable of hybridizing to the complement of SEQ ID NO: 12 under high stringency conditions at 42°C;

(j) the actinomycete of (i) wherein said actinomycete corresponds to EN27 (AGAL Deposit No. NM03/35606);

(k) an actinomycete characterized either by a nucleotide sequence corresponding to the nucleotide sequence substantially as set forth in SEQ ID NO: 13 or a nucleotide sequence capable of hybridizing to the complement of SEQ ID NO: 13 under high stringency conditions at 42°C;

(l) the actinomycete of (k) wherein said actinomycete corresponds to EN28 (AGAL Deposit No. NM03/35607).

(m) an actinomycete characterized either by a nucleotide sequence corresponding to the nucleotide sequence substantially as set forth in SEQ ID NO: 16 or a nucleotide sequence capable of hybridizing to the complement of SEQ ID NO: 16 under high stringency conditions at 42°C;

(n) the actinomycete of (m) wherein said actinomycete corresponds to EN46 (AGAL Deposit No. NM03/34609);

(o) an actinomycete characterized either by a nucleotide sequence corresponding to the nucleotide sequence substantially as set forth in SEQ ID NO: 18 or a nucleotide sequence capable of hybridizing to the complement of SEQ ID NO: 18 under high stringency conditions at 42°C;

(p) the actinomycete of (o) wherein said actinomycete corresponds to EN60 (AGAL Deposit No. NM03/35896);

(q) an actinomycete characterized either by a nucleotide sequence corresponding to the nucleotide sequence substantially as set forth in SEQ ID NO: 24 or a nucleotide sequence capable of hybridizing to the complement of SEQ ID NO: 24 under high stringency conditions at 42°C; and

~~(r) the actinomycete of (q) wherein said actinomycete corresponds to PM87
(AGAL Deposit No. NM03/35608).~~

37-38. (Canceled)

39. (Previously presented) An antibody directed to the actinomycete of claim 36 or
46.

40-45. (Canceled)

46. (Previously presented) The isolated endophytic actinomycete of claim 36,
characterized by a nucleotide sequence which has greater than 98% identity to SEQ ID NO:7.

47. (Previously presented) The isolated endophytic actinomycete of claim 46,
wherein said actinomycete has greater than 99% identity with SEQ ID NO: 7.

48. (Currently amended) The isolated endophytic actinomycete of ~~claim~~any one of
claims 36, 46 or 47, wherein said actinomycete is of the species *Streptomyces tritcum* var.
griseoviride.